From:	Ehud Barak <ehbarak1@gmail.com>
To:	Sinay Moran <Sinay.moran@gmail.com>
CC:	
Date:	Fri, 5/8/2015 9:02:32 PM
Subject:	Fwd: Computer Learning

Sent from my iPhone

Begin forwarded message:

> **From:** Doron66 <doron66@gmail.com>
> **Date:** April 19, 2015 at 06:03:40 GMT+3
> **To:** Ehud Barak <ehbarak1@gmail.com>
> **Subject: Re: Computer Learning**
>
> Thank you Sir.
> I'll be available with my mobile around the clock . Some habits from the past...
>
> Good day
>
> Doron.
>
> Sent from my iPhone
>
> On 19 2015 באפר׳, at 01:09, Ehud Barak <ehbarak1@gmail.com> wrote:
>
> > Doron
> > Thx. If that's the case no need to do anything tomorrow.
> > I'll call you over the week.
> > We probably will have some Skype or FaceTime telco.
> > Best. Good flight.
> > EB
> >
> > Sent from my iPhone
> >
> > On Apr 18, 2015, at 23:35, Doron66 <doron66@gmail.com> wrote:
> >
> > > Dear Mr. Barak,
> > >
> > > With respect to where we are in our development efforts - our first full commercial version will be ready for installation at cuatomers' premises within few months from today (maybe a bit earlier) and I mean Q3 2015. That being said, we are already present in the market with advanced sale processes and full operative demo with all the functionalities of our full blown system.
> > >
> > > About the CTO and VP Cyber intelligence , it's possible that they will come to meet you tomorrow at G building anytime between 09:00 to

13:00. Please let me know if that works for you.

Best regards,

Doron

Sent from my iPhone

On 18 2015 באפר׳, at 21:40, Ehud Barak <ehbarak1@gmail.com> wrote:

> Hi doron
> I'm flying to North America for 18 days on Monday.
> Will be in touch. I'm working from there.
> But can I meet tomorrow with Dr. David to get briefed on where you actually stand with the project.
> Is it ripe? Young? Embryonic? Or just a good action plan to be executed in the coming two years and only then go to market.
> Let me know.
> Best
> EB
>
> Sent from my iPhone
>
> On Apr 18, 2015, at 21:10, Doron66 <doron66@gmail.com> wrote:
>
> > Dear Mr. Barak,
> >
> > What a miss...
> > Unfortunately Haim and my self are taking off tomorrow morning to London joining Guy who is already there from Thursday .
> > We will be back on Tuesday before the national Memorial Day.
> >
> > I'll give you my schedule and guy as well for the following week:
> >
> > On the 27th April we are heading Mexico. That will last till end of week when we'll be back in IL.
> >
> > Based on your availability , I suggest to have the full meeting as you asked on Sunday the 26th.
> > Pay attention that Yaron Eitan is planing to visit on this day as well but only on the morning between 09:00-13:00. Then he leave to NY.
> >
> > Sincerely ,
> >
> > Doron.

Sent from my iPhone

On 18 2015 באפר׳, at 20:52, Ehud Barak <ehbarak1@gmail.com> wrote:

> Pl read,check the feasibility and respond
> I've cc'd 100 & 400 as well.
> Best
> EB
> Sent from my iPhone
>
> On Apr 18, 2015, at 18:04, Ehud Barak <ehbarak1@gmail.com> wrote:
>
> > Hi Doron
> > I will appreciate it if I can visit tomorrow 5th Dimension at your place in order to get a first hand impression of the project.
> > It's comfortable to me to do it on 3pm. (2pm is also possible).
> > It'll be good if Dr. David be there as well. And of course Guy and Haim if they're available.
> > Pl confirm and send me full address.
> > Looking forward.
> > Best
> > EB
> >
> > Sent from my iPhone
> >
> > On Apr 7, 2015, at 18:38, 111 <111@cybersec-ag.ch> wrote:

Dear
Mr.
Barak

I
am
forwarding
you
the
answer
of
Dr.
David
with
"heavier"
links
to
the
subject.

I
hope
you'll
find
it
accurate
to
your
expectations.

Best
regards,

**Doron
Cohen**
**Vice
Chairman**
Telephone:
**+41
445852577**
Mobile:
**+972
50
6562356**
Email:
**111@cybersec-
ag.ch**
Address:
**Dorfstrasse
6,
8834
Schindellegi
(Zurich**

County)
Switzerland

<image001.png>

Dear Mr. Barak,

It was a great pleasure meeting you today. It is the first time that I meet someone who is not a deep learning researcher but asks the most important questions in the domain, as you did.

The following are several overviews

of deep learning, and at the end two videos with in-depth technical content.

High level overviews:

Meet the man Google hired to make AI a reality (published in Wired): http://www.wired.com/2014/01/geoffrey-hinton-deep-learning/

Is "Deep Learning" a revolution in artificial intelligence? (published in New Yorker): http://www.newyorker.com/news/news-desk/is-deep-learning-

a-revolution-in-artificial-intelligence

Computer Science: The learning machines (published in Nature): http://www.nature.com/news/computer-science-the-learning-machines-1.14481

Please note that the abovementioned overviews are from the past three years, and since then even more mindboggling results have been obtained in deep learning. For example, in computer vision the error

rate of deep learning in object recognition is lower than humans, in speech recognition for the first time deep learning is capable of speech recognition in noisy environments, and in natural language processing deep learning is performing translation and categorization better than any previous method.

The results have been amazing in other

domains as well. For example, in a previous work I have shown that computers can learn to play grandmaster-level chess only by looking at databases of chess games, without anyone telling them even the most basic things about chess (e.g., not even knowing that a queen is worth more than a pawn).

This self-learning chess program of mine reached the second place in World Computer Speed Chess Championship (competing against top commercial chess programs developed for many years), and the academic paper publishing these results received a best paper award in the leading conference in the field and won the gold medal for best

human-competitive results (award for self evolved programs which exhibit super-human intelligence).

These staggering advances in artificial intelligence have caused prominent figures such as Stephen Hawking, Elon Musk, and Bill Gates to warn about the computers becoming more intelligent than humans in the near future! See, e.g.: http://www.washingtonpost.com/blogs/the-switch/wp/2015/01/28/bill-gates-on-

dangers-of-artificial-intelligence-dont-understand-why-some-people-are-not-concerned/

Regarding the availability of deep learning technology outside giants such as Google, Facebook, and Baidu, the following is a good article, explaining why these large corporations are purchasing everything that has anything to do with deep learning: http://www.technologyreview.com/news/524026/is-google-cornering-

the-market-on-deep-learning/

Finally, the following are two technical presentations by two most prominent figures in deep learning:

Geoffrey Hinton (head of deep learning in Google) – "Recent developments in deep learning" (2013): https://www.youtube.com/watch?v=vShMxxqtDDs

Andrew Ng (head of deep learning in Baidu) – "Deep learning, self-thought

learning, and unsupervised feature learning" (2013): https://www.youtube.com/watch?v=n1ViNeWhC24

The lecture by Andrew Ng focuses on unsupervised learning with deep learning, that is, learning without having any target or labelled data (as we discussed today, just looking at streams of information and finding patterns).

Please let me know if you would like

additional material on deep learning.

Looking forward to meeting you again,

Dr. Eli David, PhD
(+972) 54-2922924
400@cybersec-ag.ch
My publications: http://www.oedavid.com/pubs.html (in the background I hope you can hear my Piano)